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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
09/112,434	07/09/98	MOON J	MOON-MS9802

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EXAMINER
SHERALI, I

ART UNIT	PAPER NUMBER
2621	11

DATE MAILED: 10/24/00

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks
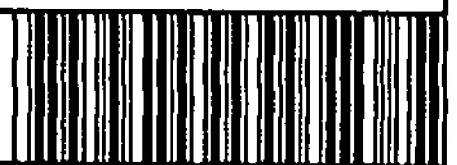
☒ Responsive to communication(s) filed on _Jul 31, 2000_

☐ This action is **FINAL**.

☐ Since this application is in condition for allowance except for formal matters, **prosecution as to the merits is closed** in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

A shortened statutory period for response to this action is set to expire _____3_____ month(s), or thirty days, whichever is longer, from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

Disposition of Claim

☒ Claim(s) _1-14, 19-22, and 24-28_ is/are pending in the applicat

    Of the above, claim(s) _____ is/are withdrawn from consideration

☐ Claim(s) _____ is/are allowed.

☒ Claim(s) _1-14, 19-22, and 24-28_ is/are rejected.

☐ Claim(s) _____ is/are objected to.

☐ Claims _____ are subject to restriction or election requirement.

Application Papers

☐ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.

☐ The drawing(s) filed on _____ is/are objected to by the Examiner.

☐ The proposed drawing correction, filed on _____ is ☐ approved ☐disapproved.

☐ The specification is objected to by the Examiner.

☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

    ☐ All ☐ Some* ☒ None of the CERTIFIED copies of the priority documents have been

        ☐ received.

        ☐ received in Application No. (Series Code/Serial Number) _____ .

        ☐ received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

    *Certified copies not received: _____

☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

☐ Notice of References Cited, PTO-892

☐ Information Disclosure Statement(s), PTO-1449, Paper No(s). _____

☐ Interview Summary, PTO-413

☐ Notice of Draftsperson's Patent Drawing Review, PTO-948

☐ Notice of Informal Patent Application, PTO-152

— SEE OFFICE ACTION ON THE FOLLOWING PAGES —

Response to Amendment/Arguments

1.   This action is in response to applicant's amendment/arguments received on 7/31/00, all requested changes to specification and claims have been entered.

Applicant's arguments filed on 7/31/00 regarding claims 1-14, 19-22 and 24-28 have been fully considered and they are persuasive with respect to art rejection . Claims 1-14, 19-22 and 24-28 would be allowable over the prior art of record if applicant overcome the rejection under 35 U.S.C 112 second paragraph.

Claim Rejection - 35 U.S.C 112

2.   The following is a quotation of the second paragraph of 35 U.S.C. 112:

> The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3.   Claims 1-5, 7-8, 10-11, 14, 19-22, 24-28 are rejected under 35 U.S.C 112, second paragraph as being lacking clear antecedent basis.

Regarding claim 1, the following terms lacks clear antecedent basis "the binary picture" lines 2-9, "the picture" line 3-7, "said binary picture" line 6, "the block" lines 7-13 , "said block" line 9, "the context index" line 16, "the context probable value" lines 18-19. Correction is required.

Regarding claim 2, the following terms lacks clear antecedent basis " said binary picture". Correction is required.

Regarding claim 3, the following terms lacks clear antecedent basis "said block" line 2,

"the leftmost or uppermost side of the binary picture" line 3.   Correction is required.

Regarding claim 4, the following terms lacks clear antecedent basis " the uppermost

row" lines 3-5, " the right or left of pixels" line 6, "said top border", "the leftmost column" lines

8-10, "the inputted binary picture" line 10, "the upper or lower side" line 11, "said left border"

12-15, "the top border" line 14, "the right most column" line 15, "the corner border " line 16,

"the left or upper block" 17-18, " leftmost block" line 19.   Correction is required.

Regarding claim 5, the following terms lacks clear antecedent basis " the bordered block"

line 4-5, " the current block" line 6, "the rightmost column or lowermost row" line 7.   Correction

is required.

Regarding claim 7, the following terms lacks clear antecedent basis " the probable" line 5.

Correction is required.

Regarding claim 8, the following terms lacks clear antecedent basis " the binary picture"

lines 2-3, "the picture" lines 3 , "said binary picture" line 5, " the top and left side of extended

block" lines 8-9, "the extended block" line 10, "the context probable" lines 11-12, "the probable

values" line 17-21, "the object interior" line 21-25, " the object exterior" line 21-25, "the value of

the current pixel" line 23.   Correction is required.

Regarding claim 10, the following terms lacks clear antecedent basis " the uppermost

block" line 3-6, the uppermost row of the current block on the top of the current block" line 5-6

" the lowermost row .. to the top of the current block " lines 6-9, "the current block"line 10,

"the left most side" 11, "the leftmost column of the current block ..the left side of the current

block.. ..the leftmost side " line 12-14, "the rightmost column ..neighboring to the left side"14-15, "the left side of the current block ....leftmost side"16-7, "the current block" line 18. Correction is required.

Regarding claim 11, the following terms lacks clear antecedent basis " the rightmost column" or lowermost row line 4-5. Correction is required.

Regarding claim 14, the following terms lacks clear antecedent basis " the corner bordering"...of the current block lines 1-2, "the rightmost and lowermost pixel" lines 2-3, " the top and left side of the current block" line 4, "the corner with exterior of the object", "the block does not exist on the top and left side of the current block" lines 6-7. Correction is required.

Regarding claim 24, the following terms lacks clear antecedent basis " the picture" line 2 "the current block" line 7-8, "the position" line 8, the blocks ...the top, left and upper ..of the current block" 9-10, "the blocks" ...outputting the neighboring block ..of the current block " lines 11-12, "receiving the bordered blocks " line 14, "the context indexes" line 16-17, "the context probable " line 18, "the probable value" line 19. Correction is required.

Regarding claim 19, the following terms lacks clear antecedent basis " the top ...the block" lines 2-3, " the block" line 4. Correction is required.

Regarding claim 20, the following terms lacks clear antecedent basis " the top and left side of the current block" line 3-6, "the exterior of the object" lines 4-5. Correction is required.

Regarding claim 21, the following terms lacks clear antecedent basis " the probable value of the object" line 2, "the respective pixels" lines 6-9. Correction is required.

Regarding claim 22, the following terms lacks clear antecedent basis " on the top and left side of the block"..for the blocks" lines 3-4. Correction is required.

Regarding claim 25, the following terms lacks clear antecedent basis "the bordered blocks" line 13, "the context indexes" line 15, "the index" line 14, "the context probable table" line 15, " the respective pixel" ..on the bordered block" line 22. Correction is required.

Regarding claim 26, the following terms lacks clear antecedent basis "the rightmost and lowermost pixel lines 1-2, " the top and left side the current block" lines 2-3, "if the block does not exist on the top and left side lines 3-4. Correction is required.

Regarding claim 27, the following terms lacks clear antecedent basis "the rightmost and lowermost pixel values" lines 1-2, " the top and left side of the current block" lines 2-4, "the exterior of the object " lines line 3. Correction is required.

Regarding claims 28, the following terms lacks clear antecedent basis " the top and left side of the block... for the blocks situated on the object" lines 2-3. Correction is required.

4.   Claims 7-8, 10-12, 14, 19-22 and 24-25 are rejected under 35 U.S.C 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 7, claim recites " interior/exterior value" is vague and indefinite. What interior/exterior value is referred to . Is it interior /exterior pixel value?

Regarding claim 8 and 21, claims recites "object interior/object exterior" is vague and indefinite. What object interior/ object exterior is referred to.

Regarding claim 10, claim recites "on the left side of an object" is vague and indefinite. What object is referred to.

Regarding claim 11, claim recites " context template are deviated from the picture in gaining the context template" is vague and indefinite. What gaining is referred to.

Regarding claim 12, claim recites " lowermost row is constructed in gaining the context template" is vague and indefinite. What gaining is referred to.

Regarding claim 14, claim recites " exterior of the object" is vague and indefinite. What object is referred to.

Regarding claim 19 and 22, claim recites "blocks situated on the object" is vague and indefinite. What object is referred to.

Regarding claim 20, claim recites " exterior of the object" is vague and indefinite. What object is referred to.

Regarding claim 21, claim recites " probable value of the object interior read and gotten from said probable table referring means with 0.5" is grammatically wrong and is vague and indefinite. What object is referred to.

Regarding claim 24, claim recites " object interior read and gotten on/from probable table referring" is grammatically wrong and is vague and indefinite. What object interior read and gotten on/from is referred to.

Regarding claim 25, claim recites " reading and getting probable values to index

on/from is grammatically wrong and is vague and indefinite. What reading and getting..on/from is

referred to.

Claim Objections

5.   Claim 13 is objected to because of the following informalities: Claim recites VOP,

Applicant is required spell to VOP . Appropriate correction is required.

Contact information

6.   Any inquiry concerning this communication or earlier communication from the examiner

should be directed to Ishrat Sherali who's telephone number is (703)-308-9589.
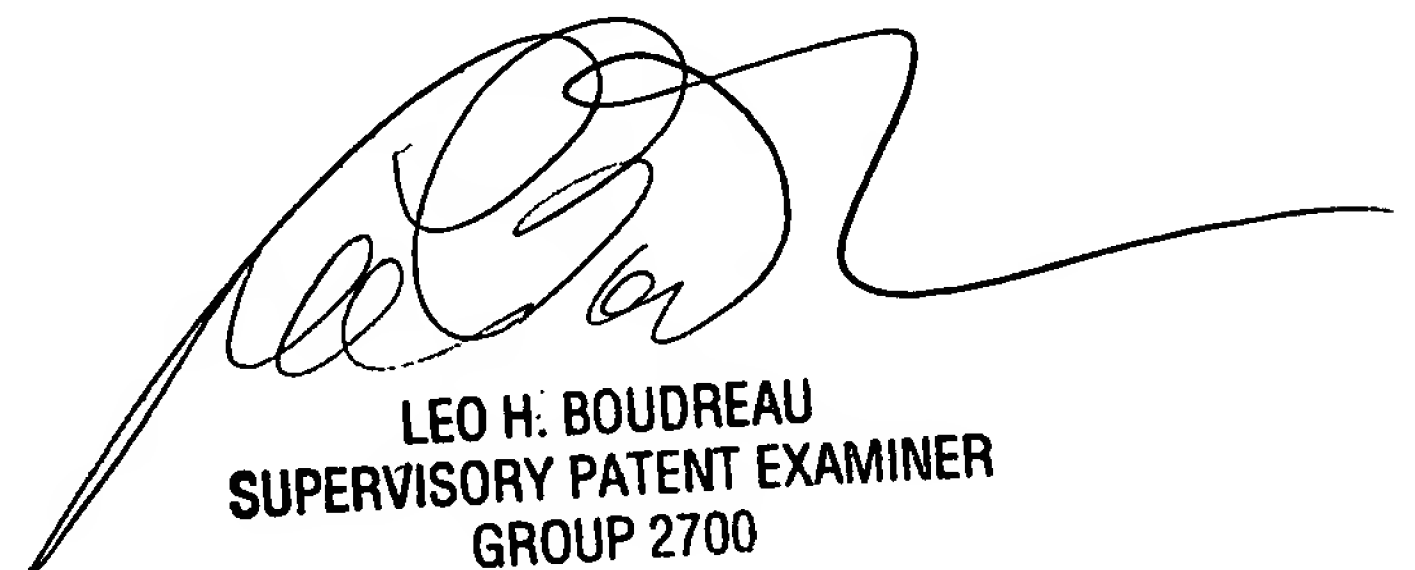
        Any inquiry of a general nature or relating to the status of this application should be

directed to the Group receptionist who's telephone number is (703)-305-3900.

Ishrat Sherali

Patent Examiner

Group Art Unit 2621

October 21, 2000

LEO H. BOUDREAU
SUPERVISORY PATENT EXAMINER
GROUP 2700